$$10000 \ ^{X_{0000}} e^{x} - alnx . \frac{1}{2} a \\ 0000000 \ ^{A_{00000}}$$

$$a = 0 \quad e^{2x} - alnx \cdot \frac{1}{2} a \quad e^{2x} \cdot \cdot \cdot \cdot 0$$

$$0 = a > 0 \qquad f(x) = e^{-x} - aln x \qquad f(x) = 2e^{-x} - \frac{a}{x}$$

$$y = 2e^{x} - \frac{a}{x_{0}}(0, +\infty) = 0 = 0 = m_{0} = 2me^{2m}$$

$$0 < x < m_{\square} \quad f(x) < 0 \quad f(x) \quad 0 \quad x > m_{\square} \quad f(x) > 0 \quad f(x) \quad 0 \quad 0$$

$$00 X = m_0 f(X) 0000000000 e^{2m} - aln m_0$$

$$e^{2m}$$
 - $alnm$. $\frac{1}{2}a$ $\frac{a}{2m}$ - $alnm$. $\frac{1}{2}a$ $\frac{1}{2}$

$$0 < m$$
, $1_{000} < m$, 1_{000}

$$0000^{a \in [0_0^2 e^3]_0}$$

$$\Box\Box\Box$$
 $C\Box$

$$200000 f(x) = e^{x} - ax_{000} e_{000000000} a_{0000}$$

0100000
$$f(x)$$
 0000000000 $f(x)$

$$200000 \xrightarrow{X \in [0, \frac{\pi}{2}]} 0000 f(x) ... e^{x} (1 - \sin x) 00000 e^{2} 000000$$

```
00000010^{1} f(x) = e^x - ax_0 \therefore f(x) = e^x - a_0
a > 0_{000} f(x) > 0_{000} x > lna_{00} f(x) < 0_{000} x < lna_{0}. x = lna_{00000000}
0000 f(na) = 0 na = 1 \therefore a = e_0
 20000 f(x)...e^{x}(1-\sin x) = e^{x}\sin x - ax..0 
X \in [0, \frac{\pi}{2}] g'(x) . . 0   g'(x)   X \in [0, \frac{\pi}{2}] g'(x)   G'(x) = g'(0) = 1 - a
① 1- a \cdot 0 = a_n \cdot 1 = g(x) > 0 = g(x) = \frac{x \in [0, \frac{\pi}{2}]}{2} = g(x) = g(x) = g(x) = 0
\therefore x \in (0, x_0) \underset{\square}{\square} g(x) < g(0) = 0 \underset{\square}{\square} \underset{\square}{\square} \square
000 a_{000000} (-\infty_0 1]_0
3000 f(x) = e^x + a\cos x(e^0
0100 f(x) 0 x=0 000000 F(1,6) 0000 a 000
0200 \times [0, \frac{\pi}{2}]_{00} f(x) ... ax_{0000000} a_{000000}
00000010^{1} \quad f(x) = e^{x} - a \sin x_{0} : f(0) = 1_{0} f(0) = 1 + a_{0}
f(x) = 0 
P(1,6) 6=2+a a=4
```

$$\therefore g'(x) = 1 + \sin x > 0 \quad \text{od} \quad g(0) = -1 < 0 \quad g(\frac{\pi}{2}) = \frac{\pi}{2} > 0$$

$$\lim_{n \to \infty} m \in (0, \frac{\pi}{2}) \mod g(m) = 0$$

0000000
$$a \in R(*)$$
 00000

$$h(x) = \frac{e^x}{x - \cos x}$$

$$H(X) = \frac{e^{x}(X - \cos X - \sin X - 1)}{(X - \cos X)^{2}} \prod_{x = 1} f(x) = X - \cos X - \sin X - 1$$

$$\int_{0}^{\infty} f(x) = 1 + \sin x - \cos x > 0$$

$$\lim_{x \to 0} t(x) \left[m \frac{\pi}{2} \right] = \frac{\pi}{2} - 2 < 0$$

$$\therefore X \in (M^{\frac{\pi}{2}}] \prod f(x) < 0 \quad \therefore h(x) < 0$$

$$\lim_{x \to 0} h(x) \left(m \frac{\pi}{2} \right] = \lim_{x \to 0} h(x)_{min} = h(\frac{\pi}{2}) = \frac{2e^{\frac{\pi}{2}}}{\pi} \lim_{x \to 0} a_n \frac{2e^{\frac{\pi}{2}}}{\pi}$$

$$\exists \square^{X \in [0 \square m)} \square g(x) = X - \cos X < 0 \square$$

$$h(x) = \frac{e^x}{x - \cos x} \begin{bmatrix} 0 & m \end{bmatrix}$$

$$\underbrace{a \in [-1, \frac{2e^{\frac{x}{2}}}{\pi}]}_{\text{ }}$$

$$4\Box\Box\Box f(x) = a\sin x (a \in R)_{\Box} g(x) = e^x_{\Box}$$

$$\square 1 \square \square \stackrel{\mathcal{G}(X)}{\square} \square X = 0 \square \square \square \square \square$$

$$200 \, a = 10000 \, G(x) = f(x) + h x_0(0,1) \, 000000$$

$$00000010 g'(x) = e^{x} g'(0) = 1 g(0) = 1$$

$$\square 2 \square G(x) = \sin x + 1nx_{\square}$$

$$G(x) = \frac{1}{X} + \cos x$$

$$\lim_{X \in (0,1)} \frac{1}{X} > 1$$

$$0 \cos x \in [-1_{\square} 1]_{\square \square} \cos x$$
, 1_{\square}

$$\frac{1}{X} + \cos X > 0$$

$$G(X) > 0$$

$$(0,1)$$

$$\Box^{G(x)}\Box^{(0,1)}\Box\Box\Box$$

$$3 \Gamma^{(x)} = e^{x} \sin x$$

$$0000 \stackrel{X \in [0,\frac{\pi}{2}]}{=} F(x) ... kx_{0000}$$

$$\Box h(x) = e^x \sin x - kx$$

$$\Box h(x) = e^x \sin x + e^x \cos x - k \Box$$

$$\prod m(x) = e^x \sin x + e^x \cos x - k$$

$$\prod nn'(x) = e^{x} \sin x + e^{x} \cos x + e^{x} \cos x - e^{x} \sin x = 2e^{x} \cos x$$

$$\mathbf{x} \in [0, \frac{\pi}{2}] \quad \text{in } (\mathbf{x}) \dots 0$$

$$m(x)$$
₀ $[0,\frac{\pi}{2}]$ ₀₀₀₀

$$\square^{m(x)\dots m(0)=1-\ k} \square$$

$$0^{K, 1}$$

②
$$\prod k > 1$$
 $\prod m(0) = 1 - k < 0$ $\prod \frac{m(\frac{\pi}{2})}{2} = e^{\frac{\pi}{2}} - k$

$$e^{\frac{\pi}{2}} - k.0_{000} {}^{(0,\frac{\pi}{2}]} e^{m(x)}_{0000000000} X_{00}$$

$$\square^{X \in (0,X_0)} \square \square^{M(X) < 0} \square$$

$$00000 \quad x_0 \in (0, \frac{\pi}{2}] \quad x \in (0, X_0) \quad m(x) < 0$$

$$_{\square} k > 1_{\square \square \square \square} (0, X_0) _{\square} h(x) < 0_{\square \square \square \square \square}$$

$$\square\square\square$$
 $^{k,1}\square$

00^{k}

$$500000 f(x) = ax^2 - e^{x^2}$$

$$100^{a=\frac{1}{2}} 00000^{f(x)} 0^{R} 000000$$

$$200 \overset{X \in \left[0,\frac{\pi}{2}\right]}{00} f(x), \ a\cos x = 0000 \overset{a}{0} = 00000$$

$$a = \frac{1}{2} \prod_{n=1}^{\infty} f(x) = \frac{1}{2} x^2 - e^{x^2} \prod_{n=1}^{\infty} f(x) = x - e^{x^2}$$

$$= \mathcal{G}(\mathbf{X}) = (-\infty, 1) = (-\infty, 1) = (1, +\infty) = (1, +\infty)$$

$$\int h(x) = x^{2} - \cos x \int \int h(x) = 2x + \sin x \int \int h(x) \int \frac{[0, \frac{\pi}{2}]}{[0, \frac{\pi}{2}]}$$

$$\prod_{x \in \mathcal{X}} h(x) ... h(0) = 0 \prod_{x \in \mathcal{X}} h(x) \prod_{x \in \mathcal{X}} [0, \frac{\pi}{2}]$$

$$\int h(0) = -1 < 0 \int h(\frac{\pi}{2}) = \frac{\pi^2}{4} > 0 \int f(x_0) \int h(x_0) = 0$$

$$\varphi(x) = \frac{e^{x}}{x^{2} - \cos x} \varphi'(x) = \frac{e^{x} (x^{2} - \cos x - 2x - \sin x)}{(x^{2} - \cos x)^{2}} < 0$$

$$\bigcap_{\mathbf{Q} \in \mathcal{A}} \varphi(\mathbf{X}) \bigcap_{\mathbf{Q} \in \mathcal{A}} 0 \bigcap_{\mathbf{Q} \in \mathcal{A}} \varphi(\mathbf{X}) \bigcap_{\mathbf{M} \in \mathcal{A}} \varphi(\mathbf{Q}) = -\frac{1}{e} \bigcap_{\mathbf{Q} \in \mathcal{A}} a \dots -\frac{1}{e} \bigcap_{\mathbf{Q} \in \mathcal{A}} \varphi(\mathbf{X}) \bigcap_{\mathbf{M} \in \mathcal{A}} \varphi(\mathbf{X}) \bigcap_{\mathbf{Q} \in \mathcal{A}} \varphi$$

$$\varphi'(x) = \frac{e^{x^2 - (x^2 - \cos x - 2x - \sin x)}}{(x^2 - \cos x)^2} \frac{1}{\cos x} m(x) = x^2 - \cos x - 2x - \sin x$$

$$\prod_{x \in X} m(x_x) = 2x_x + \sin x_x - 2 - \cos x_x = 0 \quad h(x_x) = x_x^2 - \cos x_x = 0 \quad x_x \in (0, \frac{\pi}{2})$$

$$\min_{\Omega} mi(X_0) = 2X_0 + \sin X_0 - 2 - X_0^2 = -1 + \sin X_0 - (X_0 - 1)^2 < -1 + \sin X_0 < 0$$

$$mi(\frac{\pi}{2}) = \pi - 1 > 0 \qquad \qquad \chi \in (X_i, \frac{\pi}{2}) \quad m(x_i) = 0$$

$$m(x)_{\square}(x_{\square}x)_{\square \square \square \square}(x_{,\frac{\pi}{2}}]_{\square \square \square \square}$$

$$\lim_{x \to \infty} m(x_0) = x_0^2 - \cos x_0 - 2x_0 - \sin x_0 = -2x_0 - \sin x_0 < 0 \quad m(\frac{\pi}{2}) = \frac{\pi^2}{4} - \pi - 1 < 0$$

$$\lim_{x\to\infty} m(x) < 0 \\ \lim_{x\to\infty} \varphi'(x) < 0 \\ \lim_{x\to\infty} \varphi(x) \\ \lim_{x\to\infty} \left(X_{0}, \frac{\pi}{2} \right] \\ \lim_{x\to\infty} \frac{\pi}{2}$$

$$\varphi(x)_{nm} = \varphi(\frac{\pi}{2}) = \frac{4e^{\frac{\pi}{2}-1}}{\pi^2} \underset{\square \square \square}{\square} a_n \frac{4e^{\frac{\pi}{2}-1}}{\pi^2}$$

$$f(x) = \frac{1}{3}x^3 - \sin x$$

0000001000000 f(x)000000 f(0) = 00

 $= \int f(x) = (0, +\infty) = 0$

$$g'(x) = 2 + \cos x > 0$$
 $(0, +\infty)$

$$g(0) = -1 < 0 \quad g(\frac{\pi}{2}) = \frac{\pi^2}{4} > 0$$

$$\sum_{\alpha \in (0, \frac{\pi}{2})} \chi_{\alpha} \in (0, \frac{\pi}{2}) \qquad g(\chi_{\alpha}) = 0$$

 $= \prod_{\alpha \in \mathcal{A}} f(\mathbf{X}) = (0, \mathbf{X}_{\alpha}) = \prod_{\alpha \in \mathcal{A}} (\mathbf{X}_{\alpha} = \mathbf{X}_{\alpha}) = \prod_{\alpha$

 $= \prod_{\alpha \in \mathcal{A}} f(x) = (x_{\alpha} - x) = 0$

$$0000000 a \in R_{\square} e^{x} ... a(x^{2} - \cos x)$$

$$h(x) = \frac{e^x}{x^2 - \cos x}$$

$$H(x) = \frac{e^{x}(x^{2} - \cos x - 2x - \sin x)}{(x^{2} - \cos x)^{2}}$$

$$f'(x) = 2 + \cos x + \sin x > 0$$

$$\int_{\mathbb{R}^n} f(x) e^{-(X_0, \frac{\pi}{2}]} dx$$

$$t(\frac{\pi}{2}) = \pi - 1 > 0 \qquad m \in (X_0, \frac{\pi}{2}) \qquad t(m) = 0$$

$$\int d(x) = x^2 - \cos x - 2x - \sin x = -2x - \sin x < 0$$

$$(x_0, \frac{\pi}{2}) = h(x)_{\min} (x_0, \frac{\pi}{2})_{\min} h(x)_{\min} = h(\frac{\pi}{2}) = \frac{4e^{\frac{\pi}{2}}}{\pi^2} = a_0 \frac{4$$

$$\exists \quad X \in [0_{\square} X_0) \quad \exists \quad g(X) = X^2 - \cos X < 0$$

$$\bigcirc e^{y} ... a(x^{2} - \cos x) \bigcirc \bigcirc a... \underbrace{e^{y}}_{X^{2} - \cos X} \bigcirc$$

$$H(x) = \frac{e^{x}(x^{2} - \cos x - 2x - \sin x)}{(x^{2} - \cos x)^{2}} < 0$$

$$h(x) = \frac{e^x}{x^2 - \cos x} \left[0 - X_o\right]$$

$$\therefore a ... 1_{0000} a \in [-1, \frac{4e^{\frac{\pi}{2}}}{\pi^2}]_{0000}$$

$$\frac{d(\vec{x} - \cos \vec{x})}{e^{\vec{x}}} , 1 \le \left[0 - \frac{\pi}{2}\right]$$

$$H(x) = \frac{A(x^2 - \cos x)}{e^x} \prod_{x \in X} H(x) = \frac{A(2x - x^2 + \sin x + \cos x)}{e^x}$$

$$\mathbf{1} \quad a = 0$$

$$000 \, {}^{a} 000000 \, {}^{\left[-1_{\Box} \, \frac{4 e^{\frac{\tau}{2}}}{\pi^2}\right]} \, {}^{0}$$

700000
$$f(x) = e^x + a\cos x - \sqrt{2}x - 2_0 f(x) = f(x)$$

$$01000 f(x) 000 (0, \frac{\pi}{2}) 00000000$$

$$000000100 f(x) = e^{x} + a\cos x - \sqrt{2}x - 2_{00} f(x) = e^{x} - a\sin x - \sqrt{2}_{00}$$

$$1 \quad X \in (0, \frac{\pi}{2}) \quad \therefore e^x > 1 \quad 0 < \infty X < 1 \quad 0$$

 $X \in (X_1 \ \bigcirc \ 0) \ \bigcirc \ \varphi'(X) < 0 \ \bigcirc \ H(X) \ \bigcirc \ 0 \ \bigcirc \ H(X) \ \square \ H(X) \ \bigcirc \ H(X) \ \square \ H(X) \ H(X) \ \square \ H(X) \ \square$

$$\varphi'(x) = 0 \quad \therefore e^{x} = \cos x \quad \therefore h(x)_{max} = h(x) = \cos x - \sin x - \sqrt{2} = \sqrt{2} \cos(x + \frac{\pi}{4}) - \sqrt{2}, 0$$

$$h(x)_{max} = h(x) = 0 \quad f(x) = 0 \quad f(x) = 0$$

$$\chi \in \left[-\frac{\pi}{2} \quad 0 \right] \quad h(x) = h(x) = 0 \quad f(x) = 0$$

$$\chi \in \left[-\frac{\pi}{2} \quad 0 \right] \quad f(x) = 0 \quad f(x) = 0 \quad f(x) = 0$$

$$\eta = 0 \quad \int f(x) = e^{x} \cos x \quad g(x) = e^{x} - 2ax \quad \int f(x) = e^{x} \cos x \quad g(x) = e^{x} - 2ax \quad \int f(x) = e^{x} \cos x \quad g(x) = e^{x} - 2ax \quad \int f(x) = e^{x} \cos x \quad g(x) = e^{x} - 2ax \quad \int f(x) = e^{x} \cos x \quad g(x) = e^{x} - 2ax \quad \int f(x) = e^{x} \cos x \quad g(x) = e^{x} - 2ax \quad \int f(x) = e^{x} \cos x \quad f(x) = e^{x}$$

80000
$$f(x) = e^x \cos x$$
 $g(x) = e^{-x} - 2ax$

$$0100 \xrightarrow{X \in [0, \frac{\pi}{3}]} 000 f(x) 0000$$

$$\int f(x) = e^{x}(\cos x - \sin x) = 0 \quad X = \frac{\pi}{4} \in [0, \frac{\pi}{3}]$$

$$\square^{X \in (0,\frac{\pi}{4})} \square f(x) > 0 \square^{X \in (\frac{\pi}{4},\frac{\pi}{3})} \square f(x) < 0 \square$$

$$f(x)_{min} = f(\frac{\pi}{4}) = \frac{\sqrt{2}}{2} e^{\frac{\pi}{4}} \quad f(x)_{min} = min \left\{ f(0), \quad (\frac{\pi}{3}) \right\}$$

$$f(x) = \frac{e^{\frac{x}{3}}}{2} > \frac{e^{\frac{x}{3}}}{2} > \frac{e^{\frac{x}{3}}}{2} = \frac{e}{2} > 1 = (0) \qquad f(x)_{min} = 1$$

$$\int f(x) = \left[1, \frac{\sqrt{2}}{2} e^{\frac{x}{4}}\right]$$

$$\frac{\sin x - \cos x}{e^x} + e^{x} - 2ax.0$$

$$h(x) = \frac{\sin x - \cos x}{e^x} + e^{2x} - 2ax \qquad h(x) = \frac{2\cos x}{e^x} + 2e^{2x} - 2a$$

$$\varphi(x) = H(x) = \frac{4e^{x} - 2\sqrt{2}\sin(x + \frac{\pi}{4})}{e^{x}}$$

$$h(xa > 2)...h(0) = 0$$

$$0 = 4 - 2a < 0 \\ 0 =$$

 $00000 a 000000 (-\infty 0^{2}] 0$

$$900000 \ y = f(x) = \frac{f(x)}{e^{x}} = \frac{\ln x + k}{e^{x}} = \frac{1}{2} = \frac{1}{2}$$

f(x)

0100 K0000 X < 00000 f(X)00000

$$\lim_{x \to 0} g(x) = (x^2 + x) \cdot f(x) = 0 \quad \text{and} \quad f(x) < 1 + e^2$$

$$f(x) = \frac{\ln x + k}{e^x} \prod_{n=1}^{\infty} f(x) = \frac{\frac{1}{x} \cdot e^x - (\ln x + k) \cdot e^x}{e^{x}} = \frac{\frac{1}{x} - \ln x - k}{e^x}$$

$$f(1) = \frac{1 - k}{e^{\epsilon}} = 0$$

$$f(x) = \frac{\frac{1}{X} - \ln x - 1}{e^{x}} (x > 0)$$

$$0 \quad g(x) = \frac{1}{x} - \ln x - 1$$

$$\therefore \exists x \in (0,1) \text{ and } g(x) > 0 \text{ at } f(x) > 0$$

$$\therefore \ f(x)_{00000}(0,1)_{00000}(1,+\infty)_{0}$$

$$g(x) = (x^2 + x) \cdot f'(x) = \frac{1+x}{e^x} \cdot (1-x\ln x-x)$$

$$h'(x) = -\ln x - 2 \prod_{x \in X} h'(x) = 0 \prod_{x \in X} x = e^{2}$$

$$\therefore h(x)_{max} = h(e^2) = 1 + e^2$$

$$\therefore 1$$
- $x \ln x$ - x , $1 + e^2$

$$t(x) = \frac{1+x}{e^x}(x>0) \quad t(x) = -\frac{x}{e^x} < 0$$

$$\therefore t(x)_{\square}(0,+\infty)_{\square\square\square\square\square\square$$

$$\therefore t(x) < t(0) = 1$$

$$g(x) = \frac{1+x}{e^x} \cdot (1-x\ln x - 1) < 1 + e^{-2}$$

$$1000000 f(x) = e^x - ax^2 a \in R_0$$

$$(I)_{\Box a} = 1_{\Box \Box \Box \Box \Box} (0,1)_{\Box \Box \Box \Box} y = f(x)_{\Box \Box \Box \Box \Box \Box \Box}$$

$$000000100 a = 100 f(x) = e^{x} - x^{2} f(x) = e^{x} - 2x_{0}$$

$$00^{(0,1)}00000000000(X,Y_0),X_0\neq 0$$

$$e^{y_0} - 2x_0 = \frac{y_0 - 1}{x_0}$$

$$e^{\mathbf{y}\circ} - 2x_{\mathbf{y}} = \frac{e^{\mathbf{y}\circ} - x_{\mathbf{y}}^2 - 1}{x_{\mathbf{y}}}$$

$$X_0 e^{x_0} - 2X_0^2 = e^{x_0} - X_0^2 - 1, (X_0 - 1)(e^{x_0} - X_0 - 1) = 0$$

$$0 \longrightarrow X > 0 \longrightarrow \mathcal{G}'(X) > 0 \longrightarrow X < 0 \longrightarrow \mathcal{G}'(X) < 0 \longrightarrow X <0 \longrightarrow X$$

$$\int_{0}^{\infty} g(x) = e^{x} - x - 1_{0} = 0$$

$$y+1=0$$

$$f(x) = e^{x} - ax^{2} = e^{x} \left(1 - \frac{ax^{2}}{e^{x}} \right), \quad h(x) = 1 - \frac{ax^{2}}{e^{x}}$$

$$00 e^{x} > 0 00000 f(x) 0000000 f(x) 0000000$$

$$0 = a_{x}, 0 = h(x) > 0 = h(x) = 0 = 0 = f(x) = 0 = 0 = 0$$

$$h(2) = 1 - \frac{4a}{e^{i}} \prod_{x \in A} h(x) \prod_{x \in A} (0, +\infty)$$

$$H(2)>0, \quad a<\frac{\vec{e}}{4}, h(x) \quad (0,+\infty)$$

$$H(2) = 0, \quad a = \frac{\vec{e}}{4}, H(\vec{x}) \quad (0, +\infty) \quad (0, +\infty$$

$$\underbrace{e^{\frac{X}{3}} > \frac{X}{3}}_{\text{ODD}} e^{y} > \underbrace{X^{2}}_{\text{ODD}} \underbrace{e^{x}}_{\text{ODD}} > \underbrace{X^{2}}_{\text{ODD}} \underbrace{X^{2}}_{\text{ODD}} < 1 \\ \underbrace{X^{2}}_{\text{ODD}} \underbrace{X^{2}}_{\text{ODD}} < 1 \\ \underbrace{X^{2}}_{\text{ODD}} \underbrace{X^{2}}_{\text{ODD}} = \underbrace{27a_{\text{ODD}}}_{\text{ODD}} \underbrace{27e^{y_{\text{ODD}}}}_{\text{ODD}} = \underbrace{27^{2}a^{3}}_{\text{ODD}} < 1 \\ \underbrace{e^{y_{\text{ODD}}}}_{\text{ODD}} = \underbrace{27^{2}a^{3}}_$$

$$h(27a) = 1 - \frac{27^2 a^3}{e^{7a}} > 0$$

$$\Box^{h(x)}\Box^{(2,27a)}\Box\Box\Box\Box\Box\Box$$

$$= \int f(\vec{x}) \, \left[(0, +\infty) \right] \, dx = 0$$

$$f(x) = 0 \quad \boxed{1} \quad \frac{1}{a} = \frac{x^2}{e^x} \quad \boxed{}$$

$$k(x) = \frac{x^2}{e^x} (x \in (0, +\infty))$$

$$K(X) = \frac{2X - X^2}{e^x} = \frac{X(2 - X)}{e^x}, \quad K(X) = 0 \quad X = 2$$

$$\lim_{x \to \infty} K(0) = 0 \xrightarrow{X} X > 2 \xrightarrow{x^2} \frac{x^2}{e^x} > 0$$

$$0 < \frac{1}{a} < \frac{4}{e^2} \prod_{i=1}^{n} k(x) \binom{0}{i} \binom{0}{i} + \infty$$

$$0 = \frac{\partial^{2}}{\partial x^{2}} + \frac{\partial^{2}}{\partial x^{2}} = \frac{\partial^{2}}{\partial x^{2}} = \frac{\partial^{2}}{\partial x^{2}} + \frac{\partial^{2}}{\partial x^{2}} = \frac{\partial^{2}}{\partial x^{2}} =$$

$$11_{\text{0000}} f(x) = (x-1)e^{x} - x^{2} g(x) = ae^{x} - 2ax + a^{2} - 10(a \in R)$$

$$\lim_{n\to\infty} y = f(x) = (1_n f_{n1n}) = 0$$

$$0 = X > 0 = f(x) > g(x) = 0 = 0 = 2 = 0 = 0$$

$$000000000 f(x) = e^{x} + (x-1)e^{x} - 2x_{0} f_{010} = e^{-2}$$

$$f_{\boxed{1}\boxed{1}}=-1_{\boxed{0}}$$

0000000
$$y = (e - 2)x + 1 - e - 4 00$$

$$010000\,{}^{a}0\,{}^{b}000$$

$$020000 g(x) = f(x) - 3x_{00000}$$

$$3000000 X \in R_{0000} X (x) ... \frac{3}{2} x^{2} + 2\lambda x^{2} + x$$

$$f(x) = ae^{x} + b\cos x + \frac{1}{2}x^{2} + 1$$

$$\Box f(x) = ae^x - b\sin x + x_{\Box}$$

$$00 \quad f(x) \quad 00000 \quad (0 \quad f(0)) \quad 0000000 \quad y = x + 1 \quad 0$$

$$f(x) = e^{x} - \cos x + \frac{1}{2}x^{2} + 1$$

$$\int g(x) = f(x) - 3x = e^x + \sin x - 2x$$

$$\int g'(x) = e^x + \cos x - 2$$

$$\Box^{h(x)=g'(x)}\Box$$

$$\prod h'(x) = e^x - \sin x$$

2
$$\square$$
 X . $\Omega_{\square\square\square}$ e^x ... Ω_{\square} - Ω_{\square} - Ω_{\square} A^x - Ω_{\square} A^y - Ω_{\square}

$$\operatorname{od}^{\mathscr{G}(\mathbf{X})}\operatorname{o}^{[0}\operatorname{o}^{+\infty)}\operatorname{oddoo}$$

$$\square^{\mathcal{G}(X)\ldots\mathcal{G}(0)=0}\square$$

$$\square^{\,\mathcal{G}(\mathbf{X})}\square^{[0}\square^{+\infty)}\,\square\square\square\square\square$$

①
$$X = 0$$
 $\lambda \in R_0$ $\lambda \in R_0$ $\lambda = 0$ $\lambda \in R_0$

$$2 \times x > 0 \times x + \frac{3}{2}x^{2} + 2\lambda x^{2} + x \qquad e^{x} - \cos x + \frac{1}{2}x^{2} + 1 \cdot \frac{3}{2}x^{2} + 2\lambda x + 1$$

$$\square e^{x} - x^{2} - 2\lambda x - \cos x \cdot 0$$

$$\Box G(x) = e^x - x^2 - 2\lambda x - \cos x$$

$$\Box G(x) = e^{x} - 2x + \sin x - 2\lambda = g(x) - 2\lambda \Box$$

$$\int_{0}^{\lambda_{n}} \frac{1}{2} \frac{1}{2$$

$$\square\square^{G(X)}\square\square\square\square\square$$

$$\square G(X) > G(0) = 0$$

$$\lambda > \frac{1}{2} \cos 2 \cos G(x) = e^{x} - 2x + \sin x - 2\lambda = g(x) - 2\lambda_{0}(0, +\infty) \cos 0$$

$$\Box \Box e^{x}...ex$$

$$\Box G(x) = e^{x} - 2x + \sin x - 2\lambda > (e^{-2})x - 1 - 2\lambda \Box$$

$$G(\frac{1+2\lambda}{e-2}) > (e-2) \cdot \frac{1+2\lambda}{e-2} - 1 - 2\lambda = 0$$

$$_{\square}\,G(0)=1\cdot\ 2\lambda<0_{\square}$$

$$X_{0} \in (0, \frac{1+2\lambda}{e-2}) \bigcup_{0 \in \mathbb{Z}} G(X_{0}) = 0$$

$$0 < x < x_{00} G(x) < 0_{00} G(x) = 0$$

$$\lim_{x \to \infty} x \in (0, x_0) \underset{x \to \infty}{\longrightarrow} G(x) < G(0) = 0$$

$$0 \frac{\lambda_{n}}{2} \frac{1}{2} \frac{1}{2$$

$$000000 \stackrel{\lambda}{\sim} 0000000 \stackrel{(-\infty,\frac{1}{2}]}{0}$$



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